

The University of New Mexico Core Curriculum (37 units)

Writing and Speaking: (3-9 units)

Mathematics: (3 units)

Physical and Natural Sciences: (7 units)

Social and Behavioral Sciences: (6 units)

Humanities: (6 units)

Second Language: (non-English language; 3 units)

Fine Arts: (3 units)

Arts and Sciences College Minimum Requirements

· Total credit hours = 120

· 300/400 level credit hours = 48*

· Minimum credit hours taught in A&S = 96

***Students who complete a second language through the fourth semester are exempt from 6 of the 48 required upper division credit hours.**

University Residence Requirements

a. Minimum hours = 30

b. Senior standing = 15 past 92

c. In major = One half

d. In minor = One quarter

Minimum graduation GPA = 2.00

Keep in mind that minimum grades on road map are for individual coursework only. Students must maintain a minimum of a 2.0 cumulative grade point average for admission to and graduation from the College of Arts and Sciences. Minimums listed for the individual courses do NOT meet the cumulative minimum.

For more information visit www.catalog.unm.edu

Upper Division Electives:

Math 319 (Thry of Numbers) 3

Math 421 (Mdn Alg II) 3

Math 431 (Intro to Top) 3

Math 434 (Intro to Diff Geom) 3

Math 441 (Probability) 3

Math 462 (Intro to Ord Diff Eq) 3

Math 472 (Fourier Anly&Wavelet) 3

Important Notes

Recommendations:

1) Students are strongly encouraged to take Math 327 as soon as possible to build mathematical reasoning and proof writing skills.

2) Students should be aware that Math 322 is only offered in the Fall and Math 412 is only offered in the Spring.

3) Students are encouraged to take Math 401 and 402 in consecutive semesters. Math 402 is only offered in the spring. Similarly, students wishing to take Math 421 (Modern Algebra II) as an elective are encouraged to arrange their schedules so that it is taken immediately after Math 322. Math 421 is offered only in the Spring.

4) Students may also consider taking the Modern Algebra sequence in semesters 5-6 and the Advanced Calculus sequence in semesters 7-8, reversing the order above.

Regarding electives:

1) Students interested in applying to graduate programs in pure mathematics are encouraged to take Math 421 (Modern Algebra II) and Math 431 (Introduction to Topology).

Advisement Contact Information:

Major Advisor: Krista Navarrette

Email: krisnava@unm.edu

Website: LoboAchieve.unm.edu

Faculty Advisor:

Email:

Website: Math.unm.edu

Minor Advisor or
2nd Major Advisor:

Email:

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This is a sample roadmap. variations can be considered with your Advisor

You should get a faculty advisor as soon as you know that you want to major in Mathematics

Recommended to minor in another science (CS, Phys, BIOL, Chem, EPS, ENVS) it will better prepare you for the job market and will give you a better idea of how math is used, good on your resume.

Students are strongly encouraged to:

Take CS151 early on (semester 1 or 2)

Take 311 soon after 264

Take 313 before or concurrently to 312

Take 321 early (absolutely before 401,375) & before/concurrent to 316 if no linear algebra knowledge.

Things to consider regarding elective choices:

Math 327: if you are unfamiliar with mathematical abstraction, it also helps to take 327 before 321 and 401, it will prepare you to better write and understand proofs. If you choose to take this course, take it early (recommended in semester 3, move 316 back)

Math 412 nonlinear dynamics: will use mathematics from many other areas such as calculus, odes, linear algebra, & applications

Math 464 will solidify your linear algebra skills and prepare you well for jobs using applied mathematics (such as at Sandia, Air Force, computing consulting companies)

Math 462, 463: good for deeper theoretical understanding/delving into ODEs/PDEs

Math 471: if you're interested in computing, will give you practice and experience in large scale parallel computing

Math 472: interested in analysis, wavelets, image processing

Stats 345 is a good course for breadth, and especially if you are interested in health sciences, finance, actuary

Math 441 and a Stats 400 level course can be used instead of stats 345 to get a good introduction to probability and statistics

Math 441 probability, especially good if interested in actuary, finances

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Suggested Minors/Upper Division Electives:

Math 316 (Appl Ord Diff Eqs)

Math 375 (Intro to Num Comp)

Math 412 (Nonlin Dyn & Chaos)

Important Notes

It is important for those in the math education concentration to pay close attention to the courses which are only offered in the Fall (305 and 322) or in the Spring (306 and 338). It is also highly recommended to take 327 and 314 (or 321) early, before the courses with a heavy emphasis on proof writing.

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Suggested Minors/Upper Division Electives:

Student is Required to Minor in Computer Science/see CS advisor for requirements

Math 312 (Part Diff Equ for Engr)	3
Math 316 (Appl Ord Diff Eqs)	3
Math 317 (Elem Combinatorics)	3
Math 318 (Grph Thry)	3
Math 319 (Thry of Nos)	3
Math 322 (Mdn Alg I)	3

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